

### Specifications

<b>Circuit :</b>	11 Transistor Superheterodyne
<b>Frequency Coverage :</b>	FM 86.5—108 Mc (3.53—2.78 m) MW 530—1,605 Kc (566—187 m)
<b>Intermediate Frequency :</b>	FM 10.7 Mc MW 455 Kc
<b>Antenna System :</b>	FM Built-in Telescopic Antenna MW Built-in Ferrite Bar Antenna
<b>Maximum Sensitivity :</b>	FM -2 dB (at 50 mW output with 6 dB S/N) MW 26 dB (at 10 mW output)
<b>Selectivity :</b>	22 dB at 10 Kc off resonance, at 1,400 Kc
<b>Output Power :</b>	480 mW (undistorted)
<b>Current Drain :</b>	12 mA (MW), 15 mA (FM) at zero signal, 160 mA at 480 mW output
<b>Speaker :</b>	4-3/4" × 3-1/8" (12 × 8 cm) PM dynamic, 8 Ω
<b>Battery :</b>	Four size "C" Flashlight Batteries (6 Volts)
<b>Dimensions :</b>	12" × 6-5/8" × 2-3/8" (300 × 167 × 60 mm)
<b>Weight :</b>	3-1/2 lbs. (1.6 kg)

Electrical characteristics of FM band is measured with the LOCAL/DISTANT Selector Switch set to "DISTANT".

### Adjustments

#### a) Frequency Coverage Adjustment

	Lower Limit	Adjust	Upper Limit	Adjust
FM	i) 85.5 ± 1 Mc	Gap of FM OSC Aux. Coil (L <sub>101d</sub> )	Lower Limit + 24 Mc	Gap of FM OSC Aux. Coil (L <sub>101d</sub> )
	ii) 85.5 Mc	Trimmer Capacitor (C <sub>120</sub> )		
MW	520 Kc	Core of MW OSC Coil (L <sub>201</sub> )	1,680 Kc	MW OSC Trimmer (C <sub>205</sub> )

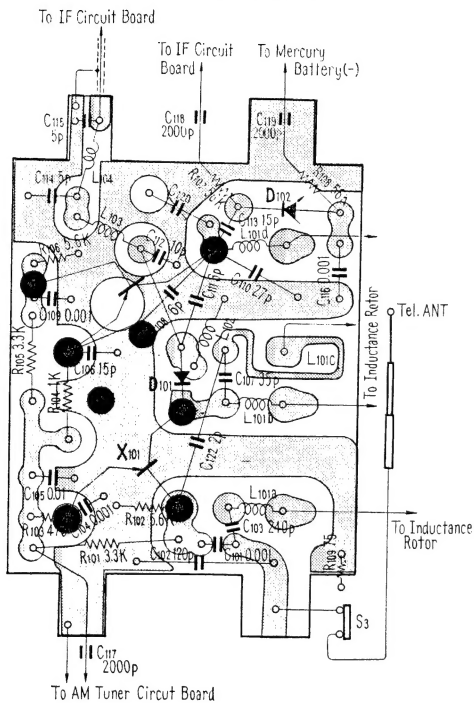
#### b) Tracking Adjustment

	Lower Checking Point	Adjust	Upper Checking Point	Adjust
FM			109.5 Mc	Gap of FM RF Aux. Coil (L <sub>11b</sub> ) and Gap of FM ANT Aux. Coil (L <sub>101a</sub> )
MW	620 Kc	Position of MW ANT Coil (L <sub>202</sub> )	1,400 Kc	MW ANT Trimmer (C <sub>206</sub> )

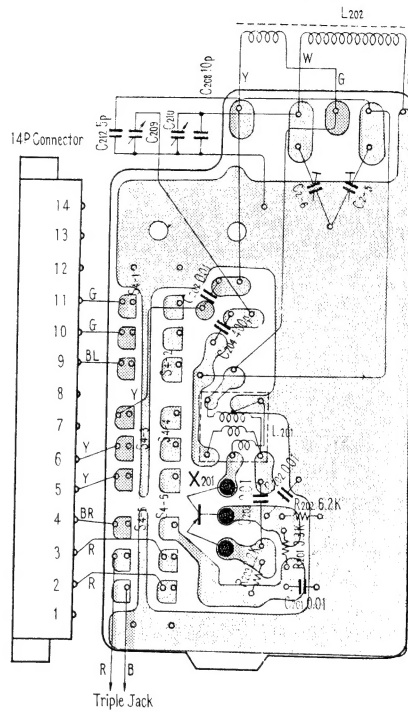
### Mounting Diagram

- Printed Side -

### FM Tuner Section



### AM Tuner Section

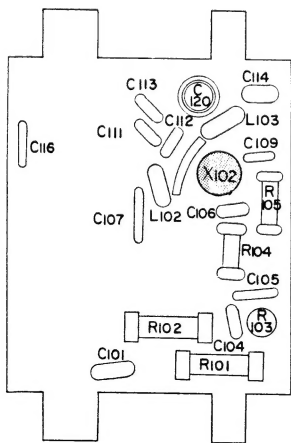


## Mounting Diagram

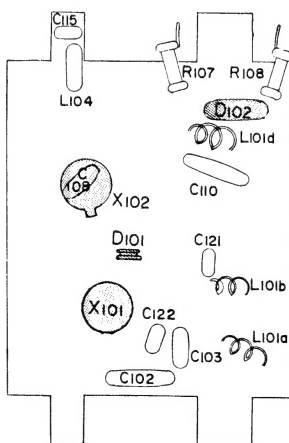
—Parts Side—

### FM Tuner Section

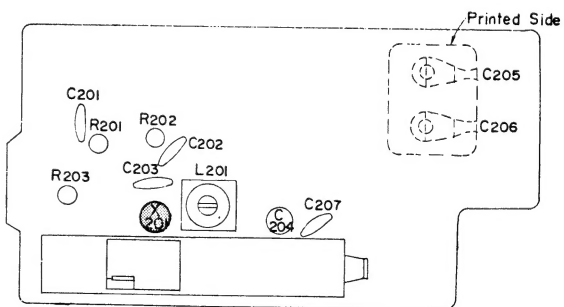
Parts	Side
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2	Right
3	Left
4	Right
5	Left
6	Right
7	Left
8	Right
9	Left
10	Right
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13	Left
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91	Left
92	Right
93	Left
94	Right
95	Left
96	Right
97	Left
98	Right
99	Left
100	Right



Printed Side



### AM Tuner Section



The schematic diagram illustrates a radio receiver circuit, likely a superheterodyne design. The circuit is organized into several functional blocks, each identified by a dashed-line enclosure and a label:

- Input and Tuning Section (Top Left):** Includes the Tel. ANT input, a series of tuned circuits (X101, X102, X301, X302, X303, X304), and a detector/AF amplifier stage (X201). The circuit is labeled with component values and part numbers.
- Detector and AF Amplifier (X201):** This stage is responsible for detecting the signal and amplifying the audio frequency. It includes a 2SA122 transistor and various passive components.
- Volume and Tone Control (X401, X402):** These sections provide user-adjustable volume and tone control. X401 is a 2SB379 transistor, and X402 is a 2SB382 transistor.
- Output Stage (Bottom Right):** This section drives the speaker (SP) and includes a 2SB379 transistor (X401) and a 2SB382 transistor (X402).

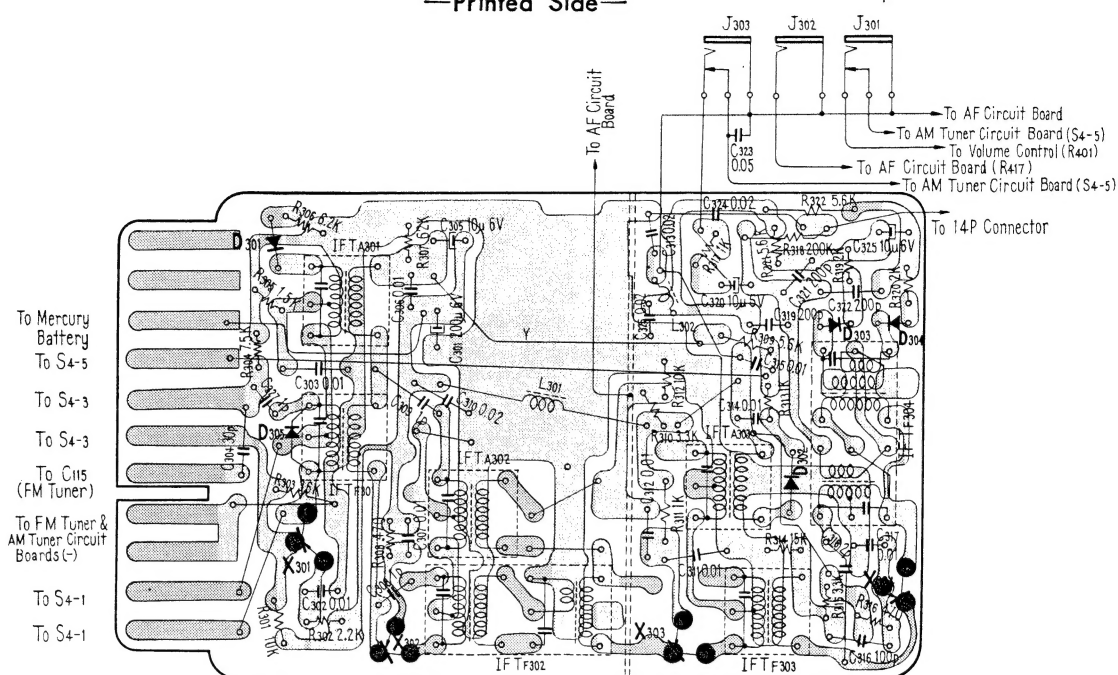
The circuit is powered by a 1.5V battery (Batt. 1.5V) and includes a 500μA current source. The output is connected to a speaker (SP) and a pair of earphones (J401, J402). The diagram is labeled with component values and part numbers.

Capacitors marked with  $\Delta$  are built in relative IF Transformers.

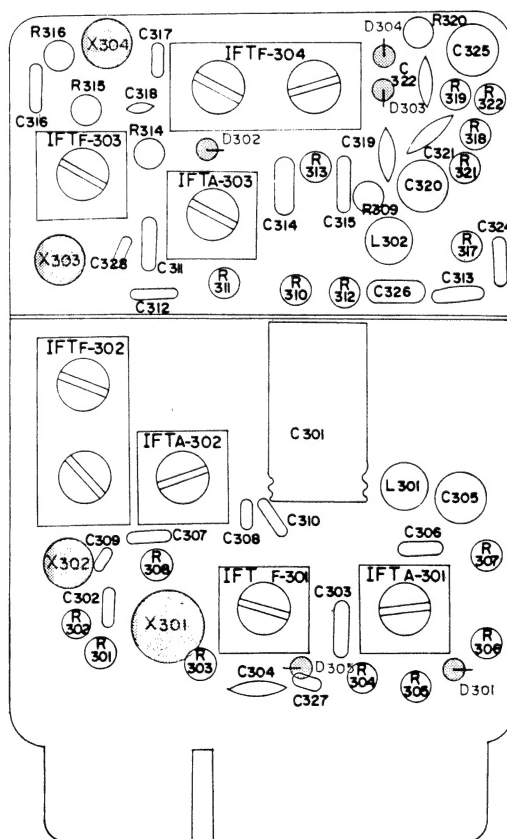
## Mounting Diagram

## IF Section

—Printed Side—

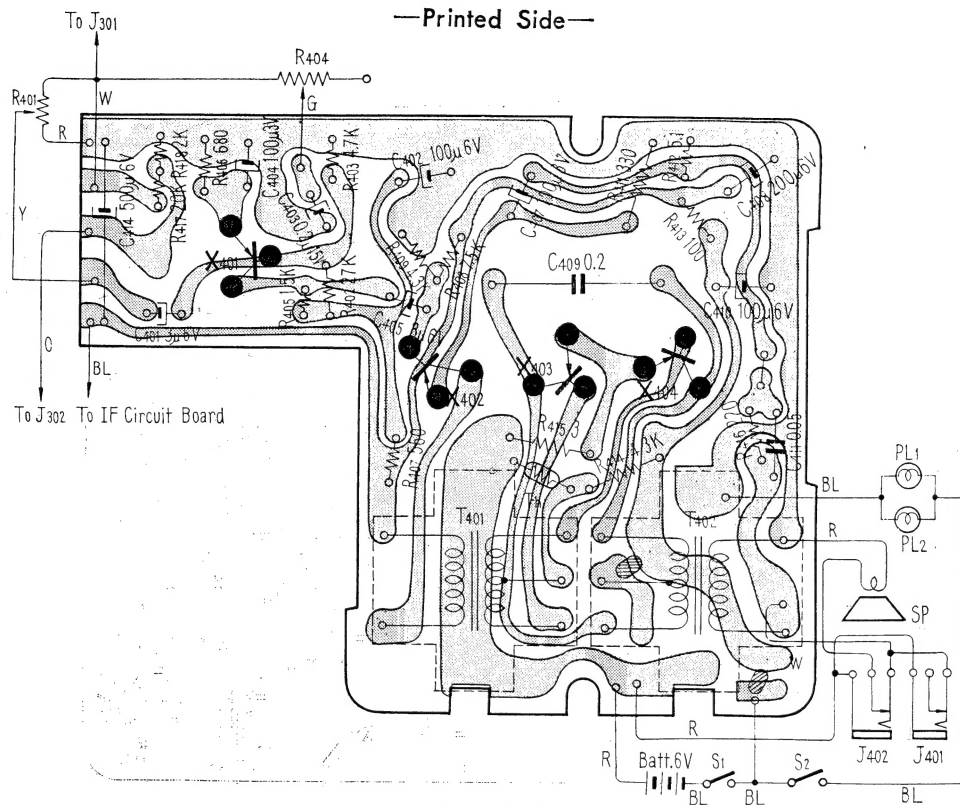


—Parts Side—



## Mounting Diagram

AF Section  
—Printed Side—



—Parts Side—

